

AMENDMENT

In the Specification:

Please amend the specification as follows:

Please replace paragraph 1, on page 1, lines 2-6, with the following:

a¹ This application is a continuation-in-part of application No. 09/346,794 filed 2 July 1999 which is a continuation-in-part of application No. 09/030,482 filed 25 February 1998 which claims priority from Provisional Application No. 60/039,204 filed 28 February 1997. The disclosures of these applications are incorporated by reference herein.

In the Claims:

~~Please cancel claims 7-13 and 15-17.~~

Please replace the presently pending claims with the following claims:

a² 1. (Amended) A recombinant DNA molecule which comprises an expression cassette wherein said expression cassette comprises a nucleotide sequence encoding a T-type calcium channel α_1 subunit, said encoding sequence operably linked to control sequences to effect its expression; wherein said α_1 subunit has an amino acid sequence at least 95% homologous to SEQ. ID. No.: 28.

2. (Amended) The DNA molecule of claim 1 wherein said α_1 subunit has the amino acid sequence of SEQ. ID. No.: 28.

~~Please cancel claim 3.~~

a³ 4. (Amended) Recombinant host cells modified to contain the DNA molecule of claim 1.

5. The cells of claim 4 which are mammalian cells.

6. A method to effect production of a functional calcium channel which method comprises culturing the cells of claim 4 or 5 under conditions wherein said functional calcium channels are produced.

a⁴ 14. (Amended) An isolated nucleic acid molecule which comprises a nucleotide sequence encoding a T-type calcium channel α_{11} subunit or its complement, wherein said α_1 subunit has an amino acid sequence at least 95% homologous to SEQ. ID. No.: 28.

Please add the following claim:

a⁵ 18. (New) The isolated nucleic acid molecule of claim 14, wherein said α_{11} subunit has the amino acid sequence of SEQ. ID. No.: 28.
